1	1. A queuing system, comprising:
2	at least one input/output (I/O) interface having an outbound queue; and
3	a plurality of processing units coupled to the at least one I/O interface, each one of
4	the processing units being coupled to a corresponding processing unit memory, each one
5	of the processing unit memories having an inbound queue for such coupled processing
6	unit; and
7	wherein the at least one I/O interface outbound queue stores outbound
8	information being returned to the I/O interface after being processed by one of the
9	processing units.

- 2. The queuing system recited in claim 1 wherein the I/O interface creates queue indices for storage in the inbound queues of the processor unit memories.
- 3. The queuing system recited in claim 2 wherein the I/O interface includes a translation table, such table storing at a location a producer index for the plurality of processing units and a consumer index for such plurality of processing units.

a plurality of interconnected directors, each one of the directors having:

4. A queuing system comprising:

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an input/output interface section for receiving information from a 3 source thereof and for returning information to interface to such source; and, 5 a microprocessor for processing information sent thereto from a 6 remote one of the directors, each one of the microprocessors 7 having a CPU and a CPU memory, such CPU memory storing a 8 queue for inbound information passed to such director for 9 processing therein such information being sent to the remote 10 director from an originating one of the directors; and 11 12 wherein each one of the input/output sections includes a queue for outbound information being returned to the source through such originating one 13

- of the directors after being processed by the microprocessor of such remote one of the directors.
 - 5. The queuing system recited in claim 4 wherein each one of the directors
- 2 includes a translation table, such table storing at a location thereof corresponding to each
- 3 one of the remote directors a producer index for the queue of such remote director and a
- 4 consumer index for such one of the remote directors.